

INTERAGENCY COORDINATING COMMITTEE (IACC)  
MARINAS AND RECREATIONAL BOATING WORKGROUP  
**DRAFT MINUTES FOR THE March 13, 2008 Meeting**

**SAVE THE DATE:** The next in-person meeting is scheduled for **Thursday May 8, 2008, from 10-12** at Cal/EPA Conference Room # 1520; call in number (916) 227-1132.

**Meeting Attendees:** Molly Munz (State Water Resources Control Board), Alan White (CA Integrated Waste Management Board), Dan Garza (Dept. of Toxic Substances Control), Nan Singhasemanon, Mark Rentz (Dept. Pesticide Regulation), Noel Stewart (Stewart Marine)

**Telephone Attendees:** Lisa Sniderman (California Coastal Commission), Vivian Matuk (California Coastal Commission/Department of Boating and Waterways), Sahrye Cohen (SF Bay BCDC), Jaime Gonzalez, Cesar Alvarez, Zack Elder (Sea Grant Program), Peter Von Langen (Central Coast Regional Board), Linda Candelaria (Santa Ana Regional Board), Lilian Busse (San Diego Regional Board), Stefanie Hada (Los Angeles Regional Board), Brandon Swope, Ignacio Riviera-Duarte, Pat Early (U.S. Navy SPAWAR), Dan Little (Central Valley Regional Board), Karen Holman, Stephanie Bauer (Port of San Diego), Fred Lee (G. Fred Lee and Associates), Kelly Moran (TDC Environmental), Stan Susman (Interlux Paint), Katy Wolf (Institute for Research and Technical Assistance)

***Agency Updates:***

**Molly Munz** (SWRCB) mentioned an upcoming training class for Aquatic Chemistry, in Sacramento (March 27-28) at the Tsakopoulos Library Galleria, Sacramento Public Library. This introductory course provides participants with an understanding of the foundations of aquatic toxicology and how these concepts are applied to managing pollutants in aquatic environments. The course covers terminology, common test designs, and endpoints such as lethality, cancer, and endocrine disruption. Important legacy and emerging pollutants of concern such as heavy metals, organic pesticides, PAHs, PCBs, PBDEs, pharmaceuticals, and personal care products will also be presented. Fate and transport will be discussed as it relates to bioavailability and pollutant partitioning in aquatic environments. Water Quality criteria from the Clean Water Act will be discussed with an emphasis on, and examples of, site specific criteria for metals using hardness correction, water effects ratio (WER), and the biotic ligand model (BLM), which has been included in the 2007 EPA updates for Aquatic Life Copper Criteria. [http://www.nwetc.org/etox-410\\_03-08\\_sacramento.htm](http://www.nwetc.org/etox-410_03-08_sacramento.htm)

**Nan Singhasemanon** (Dept. Pesticide Regulation): Nan has been busy working on the report and on activities related to Copper paints. Analysis of the 2006 copper antifouling paint study data and report will be done by May 2008. He plans to resurrect the Copper Work Group in May to catch up on developments. He will provide a full presentation to the Marina IACC in July and may consider a joint copper/marinas meeting. The results will be discussed at the next Copper subcommittee meeting, May 8th from 1-3 at Cal/EPA Conference Room # 1520 (call-in number: (916) 227-1132).

**Vivian Matuk (DBW/CCC):** Vivian mentioned that boaters are using the term "organic" in reference to antifouling paints with the assumption that these paints are somehow good for the environment, like organic agriculture is. The group agreed this

issue needs to be addressed when developing education/outreach materials for alternatives to copper-based antifouling paints. Additionally, Vivian indicated she's been busy with a lot of boater outreach including 4 boat shows (where both the Statewide Boating Clean and Green and the Keep the Delta Clean program (KDC) distributed 2,109 boater kits) and 2 Dockwalker trainings (face to face boater education). Forty-eight new Dockwalker trainings have been training in 2008. For upcoming training visit: <http://www.coastal.ca.gov/ccbn/dockwalkers.html#Trainings> Also, Vivian announced that both the Delta and the statewide program are organizing an Invasive Species workshop on March 20 in partnership with U.S. Fish and Wildlife Service, University of California Cooperative Extension - Sea Grant Extension Program, California Department of Fish and Game and the Stockton Sailing Club. On April 3rd, the Delta and the statewide program are also organizing a HAZWOPER training at the Port of Stockton. Vivian also mentioned that as a part of the KDC program, program staff will be working with SFEI on developing a Pollution Prevention Measurement model that will track how the pollution prevention marina infrastructure installed by the program and boater outreach help on pollution load reduction. For more information, please contact: [vmatuk@coastal.ca.gov](mailto:vmatuk@coastal.ca.gov).

**Stefanie Hada** (LA Regional Board): Stefanie provide an update on TMDLs for the LA Region: Marina Del Rey, Mother's Beach, other Back Basin beaches. The Marina del Rey Harbor Toxic Pollutants TMDL was adopted by the Regional Board on October 6, 2005, and went into effect on March 22, 2006. Although urban stormwater is recognized as a substantial source of toxic pollutants, including copper, we also know that passive leaching of copper-based anti-fouling paints is a potential source. When this TMDL was developed, there was insufficient information available to quantify the contribution of boat discharges to the sediment pollutant load. As a result, this TMDL requires a study designed to estimate copper partitioning between the water column and sediment in Marina del Rey Harbor. The regional board will be reconsidering this TMDL six years after the effective date (2012) based on the additional data obtained from this and other studies. The Regional Board has received a Coordinated Monitoring Plan from the County of Los Angeles, the Cities of Los Angeles and Culver City, and Caltrans. The Regional Board reviewed the Plan and submitted comments to the County. The County of Los Angeles is to revise the Plan and resubmit it for Executive Officer approval by March 31, 2008.

The waste load and load allocations for this TMDL have been developed to achieve the numeric targets in the back basins of Marina del Rey Harbor. However, the toxic pollutants that are already bound up in the sediments were preventing that attainment, so in February, 2006, the Regional Board issued a 13267 letter to the County of Los Angeles. The 13267 letter requires the County to submit a technical report including a sampling and analysis plan to assess the extent of sediment contamination throughout Marina del Rey Harbor. The County of Los Angeles, Cities of Los Angeles and Culver City, and Caltrans responded to the 13267 by submitting a sampling and analysis plan, and the Regional Board reviewed the plan and directed the responsible parties to proceed with the implementation of the Marina del Rey Sediment Characterization Study as outlined in the plan. Given the complexity of the plan, the Regional Board extended the deadline for submittal of a final interpretive report to April 30, 2008.

The Marina del Rey Mothers' Beach and Back Basins Bacteria TMDL was adopted by the Regional Board on August 7, 2003, and went into effect on March 18, 2004. The potential nonpoint sources of bacterial contamination at Mothers' Beach and the back basins include marina activities such as waste disposal from boats, boat deck

and slip washing, swimmer "wash-off," restaurant washouts, and natural sources from birds, waterfowl, and other wildlife. The bacteria wasteloads associated with these nonpoint sources are unknown. The Marina del Rey responsible jurisdictions and responsible agencies were required to conduct a study to determine the relative bacterial loading from sources including but not limited to storm drains, boats, birds, and other nonpoint sources. This study was submitted to the Regional Board, and is being reviewed as part of the reconsideration of this TMDL, which is going on now. The Regional Board held a CEQA scoping meeting on November 26, 2007 for the reconsideration of this TMDL, and expects to have a public draft out in early summer that can be taken to the board by late summer.

*Contacts for LAWQCB relevant TMDLs*  
Marina del Rey Harbor Toxic Pollutants TMDL  
Ginachi Amah  
[gamah@waterboards.ca.gov](mailto:gamah@waterboards.ca.gov)  
213/ 576-6685

Marina del Rey Harbor Mothers' Beach and Back Basins Bacteria TMDL  
Rebecca Christmann [rchristmann@waterboards.ca.gov](mailto:rchristmann@waterboards.ca.gov)  
213/ 576-6757

**Karen Holman** (Port of San Diego) Karen discussed the "Safer Alternatives to Copper Antifouling Paints Project" (a US EPA pollution prevention grant). This is a two-year project, and it's primary goal is to identify viable alternatives to copper-based antifoulant paint. End products include: a report on the types of alternative AFPs, including a comparative evaluation of their effectiveness; a list of acceptable alternative paints, and appropriate maintenance strategies, and educational materials. Next meeting will be on April 2, 2008 at the Port of San Diego from 9am-12pm. ) (See Karen's power point presentation, which was emailed to participants). Nan Singhasemanon (Dept. Pesticide Regulation) will be part of the main work group that will help determine the direction for the alternatives to cu-based antifouling paint and will keep the Marina IACC informed on this project. Karen will also present findings to the group as they become available. For more information, contact: Karen Holman at [kholman@portofsandiego.org](mailto:kholman@portofsandiego.org).

**Jaime Gonzalez** (UC Sea Grant Program):  
*Outreach and Education to Assist Members of Boating Organizations, Businesses, and Policy Makers in Managing Fouling Growth, Hull-Borne Invasive Species, and Coastal Water Quality*

Leigh Johnson and Jamie Gonzalez are finishing up the outreach project which is coming to an end March 2008. The project has been funded by the California Department of Boating and Waterways. The objective has been to extend information to the boating community on ways to balance invasive species prevention with water quality protection. They conducted close to 20 seminars throughout the state and produced and disseminated numerous publications and PSAs . They have translated 8 publications into Spanish as part of our efforts to extend information to the boating communities of Mexico. Their latest publication, *Alternative Antifouling Strategies Sampler*, will be disseminated the 3<sup>rd</sup> week of March. This publication summarizes available alternatives to copper-based antifouling paints including their costs, characteristics, recommended maintenance and longevity. A final report on the project will be produced.

*Evaluating Costs of Strategies to Protect Water Quality While Controlling Native and Invasive Fouling Species on California Boat Hulls*

Leigh Johnson, Cesar Alvarez, Jamie Gonzalez, Economist Dr. Linda Fernandez of UCR, and student assistant, Zack Elder, have been working on an economic project to produce a detailed cost analysis of the various fouling control strategies for recreational boats in California and Baja California. The project is funded by the California Department of Boating and Waterways and the California Department of Pesticide Regulation. The objective is to assist boat owners, boating businesses, academics, environmental organizations, and policymakers in making cost effective decisions for controlling invasive species, taking into account the different options and situations available in different parts of the state as well as south of the border. To begin gathering data they have been working on creating surveys that we will administer to boating businesses all over California and Baja California such as marinas, boatyards, hull cleaners, and boat lift and slip liner companies. In order to do this we have been maintaining a database of these boating businesses and their contact information. At this time they are currently doing pre-test surveys with a limited amount of boating business to get input on their survey questions. The surveys ask a wide range of questions about the services offered at their company or facility and what kinds of fouling control options they offer, as well as general questions about customer practices and familiarity with alternative hull coatings. They are hoping their study will be a positive step forward in educating boaters about the different fouling control options available to them for their different situations so that they can better control the transport of invasive species. A final report will be produced at the end of the project in 2009.